PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:

A61B 5/00, H04B 7/00

(11) International Publication Number:

WO 00/51488

A1 |

(43) International Publication Date:

8 September 2000 (08.09.00)

(21) International Application Number:

PCT/AU00/00149

(22) International Filing Date:

3 March 2000 (03.03.00)

(30) Priority Data:

PP 9022

4 March 1999 (04.03.99)

ΑU

(71)(72) Applicants and Inventors: SASSE, Anthony, Corry [AU/AU]; 4A Selbourne Road, Kew, VIC 3101 (AU). RATTEN, Stephen, Garth [AU/AU]; 17 Maramba Drive, Narre Warren, VIC 3805 (AU). HALES, Jeffrey, Edmond [AU/AU]; 16 Kirkham Road, Belgrave South, VIC 3160 (AU).

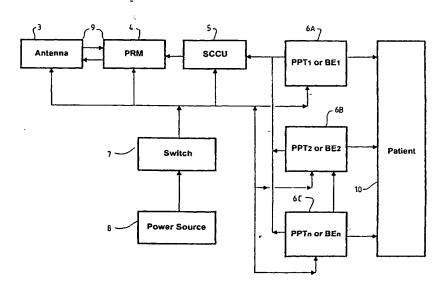
(74) Agent: GRIFFITH HACK; Level 3, 509 St Kilda Road, Melbourne, VIC 3004 (AU).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: WIRELESS SLEEP MONITORING



(57) Abstract

The present invention provides a method and apparatus for physiological monitoring of a remote subject, the apparatus including: a base station having a transmission means for transmitting a reference signal; and a physiological monitoring probe connectable to the subject, the physiological monitoring probe having: receiver means for receiving the reference signal; monitoring means for monitoring the subject and generating a condition signal containing information related to a condition of the subject; modulation means for modulating the reference signal to produce a modulated reference signal containing the information contained in the condition signal; and passive retransmission means for passively retransmitting the modulated reference signal to the base station; wherein the base station has means for receiving the modulated reference signal, and means for demodulating the modulated reference signal to obtain the information related to a condition of the subject so that a condition of the subject can be monitored at the base station.